# TRANSISTORIZED MILLIVOLT-OHM-MICROAMMETER MODEL TVOM4

REPRESENTED BY
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**FEATURES** 

High Input Impedance

3 Megohms/Volt Low Ranges
36 Megohms on High Ranges

Multifunctioned

A-C, D-C, Voltage, Current, Resistance and Temperature

Long Battery Life

Approaches Battery Shelf Life

Sensitive

150 Millivolts D-C and 1.5 Microamperes Full Scale

Fool Proof

Protection for Amplifier and Meter Movement

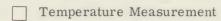
Value

Los Cost, Stable, Accurate



# **APPLICATIONS**

General Purpose Laboratory VOM or VTVM
Measurements in High Impedance Circuits
Low Voltage Measurements on Solid State Circuits
Floating Meter Isolated From A-C Ground
Field Service or Production Line
Differential Measurements at High Potential





#### **SPECIFICATIONS**

#### Ranges

Voltage Ranges

0 - 0.15V, 0.5V, 1.5V, 5V, 50V, 500V, 1500V D-C A-C

0 - 1.5V, 5V, 50V, 150V, 500V

R x 1 (10 ohm center), R x 10 (100 ohm center), Resistance Ranges

R x 1K (10K center), R x 100K (1 meg center)

D-C Current 0 - 1.5ua, 0.15ma, 15ma, 0.15amp, 1.5amp

-40° to +100°C Temperature

#### Accuracy

±3% fo full scale D-C Volts A-C Volts ±5% of full scale ±3% of full scale Current D-C Resistance ±3° linear arc

## AC Response

Frequency Greater than 100KHz

Calibration Responds to peak value of the input, calibrated in

RMS volts for a sine wave input

## Input Impedance

D-C Volts 0.15 volt range, greater than 500K

0.5 volt range, greater than 1.5 meg 1.5 volt range, greater than 5 meg 5.0 range, greater than 17 meg Other ranges, greater than 36 meg

A-C Volts Greater than 1 megohm at 1Hz

#### Miscellaneous

Movement 50ua full scale, taut band movement May be operated 1500 volts above ground Floating Input

9 volt trans radio type (Mallory TR146x), 1.5 volt Power

"C" cell (Eveready 935)

6-7/8 inches long Dimensions

5-1/4 inches wide 2-1/4 inches deep

Net Weight 2-3/4 pounds with batteries

Price \$55.00 FOB L.I.C., N.Y.

#### DESCRIPTION

THE AUL INSTRUMENTS TRANSISTORIZED MILLIVOLT-OHM-MICROAMMETER combines and exceeds the most desirable features of conventional multimeters and vacuum tube voltmeters. A unique solid state design achieves high input impedance, stability and sensitivity with a battery life approaching the battery's normal shelf life. The meter is virtually burn-out proof, offering protection against damage to the transistors and to the meter movement. The meter sensitivity provides an order of magnitude improvement over that of meters in common use, and an even higher degree of improvement in stability. One percent resistors and a tautband meter movement together with a solid state amplifier, the linearity of which is independent of supply voltage, insure accurate performance. Minimum power dissipation, long life components and protective circuitry insure that the instrument will hold its calibration under the most adverse operating conditions in the hands of inexperienced operating personnel.